

DERWENT- 1992-058330

ACC-NO:

DERWENT- 199208

WEEK:

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TITLE: Shrink-fit articles of crosslinked polymer, e.g. tubes, sleeves, etc. - coated inside with e.g. silane-crosslinked mixt. of polyamide olefin!-(meth)acrylic! acid copolymer and eva, epdm, etc.

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PATENT-ASSIGNEE: MATZAT, H WINTER, R KABELMETAL ELECTRO GMBH[GUTE]

PRIORITY-DATA: 1990DE-4026109 (August 17, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 471238 A	February 19, 1992	N/A	000	N/A N/A C09J 007/02N/A C09J 00
DE 4026109 A	February 20, 1992	N/A	000	7/02
DE 59101046 G	March 31, 1994	N/A	000	
EP 471238 A3	September 2, 1992	N/A	000	
EP 471238 B1	February 23, 1994	G	005	

DESIGNATED-STATES: BE CH DE ES FR GB IT LI NL BE CH DE DK ES FR GB IT LI NL

CITED-DOCUMENTS: NoSR.Pub; 3.Jnl.Ref ; GB 2018527 ; JP 55090575 ; JP 58038771 ; JP 61002781 ; 03Jnl.Ref

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
EP 471238A	N/A	1991EP-0112838	July 31, 1991
DE 4026109A	N/A	1990DE-4026109	August 17, 1990
DE 59101046G	N/A	1991DE-0501046	July 31, 1991
DE 59101046G	N/A	1991EP-0112838	July 31, 1991
DE 59101046G	Based on	EP 471238	N/A
EP 471238A3	N/A	1991EP-0112838	July 31, 1991

EP 471238B1 N/A

1991EP-0112838 July 31, 1991

INT-CL (IPC): B29C061/06, C09J005/06 , C09J007/02 , C09J009/00

ABSTRACTED-PUB-NO: EP 471238A

BASIC-ABSTRACT:

Shrink prods. (I) e.g. tubes, caps, sleeves or strips, consist of crosslinked material (II) based on olefin (co)polymers, elastomers or thermoplastic rubbers, the surface towards the object to be covered being coated with a hot-melt adhesive (III) which softens at the shrink temp. (T); (III) consists of 30-80wt.% component (A), 15-50wt.% (B) and 5-25wt.% (C), where (A) is a hot-melt adhesive based on polyamide, EVA copolymer, polyisobutylene, polyester or SB copolymer, (B) is ethylene/acrylic acid co- or ter-polymer, co- or ter-polymer of ethylene, methacrylic acid and maleic acid or anhydride, or alpha-olefin/(meth)acrylic acid terpolymer, (C) is EVA copolymer, ethylene/acrylate co- or ter-polymer, EPM or EPDM, SB copolymer, LLDPE and/or VLDPE, and component (B) and/or (C) is/are crosslinked by means of organo-silane cpds. (IV).

Also claimed is a process for the prodn. of (I), (a) by mixing (A), (B) and (C), adding the crosslinking reagents (e.g. silane, peroxide, catalyst etc.), applying the mixt. immediately to the substrate surface, and crosslinking the adhesive by the action of diffusing moisture; alternatively (b), (B) and/or (C) is/are first grafted with silane, then (A), (B) and (C) are mixed, the catalyst is added and the mixt. is crosslinked with moisture as above.

USE/ADVANTAGE - Provides heat-shrinkable articles, e.g. cable sleeving etc., with a surface coating of hot-melt adhesive (III); w.r.t. other adhesives, (III) has markedly higher thermal stability, and less tendency to slip, at elevated temp.

ABSTRACTED-PUB-NO: EP 471238B

EQUIVALENT-ABSTRACTS:

Shrink article, such as a tube, sleeve or tape, is made from a crosslinked material based on olefin polymers or olefin copolymers, elastomers or thermoplastic rubbers, whose surface facing the article to be wrapped is coated with a hot-melt adhesive which softens at the shrink temperature, characterised in that the hot-melt adhesive comprises 30-80% by weight of a component A, 15-50% by weight of a component B and from 5 to 25% by weight of a component C. Component A comprises a hot-melt adhesive based on polyamide, ethylene-vinyl acetate, polyisobutylene, polyester or styrene-butadiene copolymer, component B comprises ethylene-acrylic acid copolymer or terpolymer,

a copolymer or terpolymer of ethylene and of methacrylic acid, maleic acid or maleic anhydride, alpha-olefin-acrylic acid terpolymer or a alpha-olefin-methacrylic acid terpolymer, component C comprises ethylene-vinyl-acetate copolymer, ethylene acrylate copolymer or terpolymers, EPM or EPDM, styrene-butadiene copolymer, LLDPE and/or VLDPE. Components B and/or C are crosslinked via organosilane compounds.

CHOSEN- Dwg.0/0ed Dwg.0/0

DRAWING:

TITLE- SHRINK FIT ARTICLE CROSSLINK POLYMER TUBE SLEEVE COATING

TERMS: SILANE CROSSLINK MIXTURE POLYAMIDE POLYOLEFIN METHO
POLYACRYLIC ACID COPOLYMER EVA EPDM

DERWENT-CLASS: A18 A28 A35 E11 G03

CPI- A04-G01E; A08-C01; A10-E22A; A11-C02; A12-A05; G02-A05A;
CODES: G03-B02B; G03-B02D; G03-B02D1; G03-B02D2; G03-B02D3; G03-B02E; G03-B02E3; G03-B04;

CHEMICAL- Chemical Indexing M3 *01* Fragmentation Code B414 B711 B712
CODES: B713 B720 B741 B742 B743 B744 B760 B831 M210 M211 M212 M213
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232
M233 M250 M272 M281 M282 M283 M320 M411 M510 M520 M530 M540
M620 M782 M903 M904 Q130 Q331 R042 Markush Compounds
199208-A6801-M Chemical Indexing M3 *02* Fragmentation Code
K0 K9 K920 K930 M210 M211 M212 M213 M214 M215 M216 M220
M221 M222 M223 M224 M225 M226 M231 M232 M233 M272 M281 M282
M320 M416 M620 M782 M903 M904 Q130 Q331 R042 Markush
Compounds 199208-A6802-M

UNLINKED-DERWENT-REGISTRY-NUMBERS: ; 1740U ; 5085U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key	0009	0010	0037	0038	0202	0205	0218	0224	0231	0234	0235
Serials:	0239	0241	0242	0250	0251	0262	0306	0404	0405	0411	0412
	0418	0419	0495	0496	0789	1058	1095	1180	1201	1283	1288
	1417	1418	1994	2001	2020	2198	2210	2217	2291	2293	2300
	2302	2321	2325	2330	2368	2371	2437	2450	2464	2493	2532
	2534	2542	2600	2601	2654	2658	2667	2669	2684	2718	2726
	2727	2728	2782	2830	2833	3151	3153	3154	3155	3159	3252
	3319										

Multipunch	014	032	034	04-	040	041	046	047	05-	050	052	055	056	066
Codes:	067	074	075	076	077	081	104	105	106	116	117	122	134	141
	143	155	157	174	229	231	235	24-	266	267	27&	28&	299	305
	307	308	310	331	341	359	36&	364	365	368	369	381	387	392
	393	41-	415	431	44&	443	444	450	456	459	47&	473	477	479
	48-	487	489	504	54&	541	547	575	58&	582	596	597	599	600
	604	608	609	653	674	675	688	720	721	723	001	003	003	020

020	021	022	023	023	023	023	024	024	025	025	026	030	040
040	041	041	041	041	049	049	078	105	109	118	120	128	128
141	141	199	200	202	219	221	221	229	229	230	230	232	232
233	236	237	243	245	246	249	253	253	254	260	260	265	265
266	266	268	271	272	272	272	278	283	283	315	315	315	315
315	325	331											

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-026281